```
                                    P- loop
                                    ---------
Ae-dNK  MAAAIGPERLG----VAGKKPFTVFIEGNIGSGKTTFLNHFEKFKDRVCLLTEPVEKWRDC
Ag-dNK  -MPPIASERLG----ASGKKPFTVFVEGNIGSGKTTFLNHFQKFND-ICLLTEPVEKWRNC
Dm-dNK  MAEAASCARKGTKYAEGTQPFTVLIEGNIGSGKTTYLNHFEKYKNDICLLTEPVEKWRNV
Bm-dNK  ----MS---------ANNVKPFTVFVEGNIGSGKTTFLEHHRQFED-ITLLTEPVEMWRDL
                                 * * **** *          *       *

Ae-dNK  GGVNLLDLMYKEPHRWAMPFQTYVTLTMLNMHTYQTDKSVKLMERSMFSARYCFVENMLA
Ag-dNK  GGVNLLDLMYKESHRWAMPFQTYVTLTMLDMHTCQTDKSVKLMERSLFSARNCFVESMLA
Dm-dNK  NGVNLLELMYKDPKKWAMPFQSYVTLTMLQSHTAPTNKKLKTMERSTFSARYCFVENMRR
Bm-dNK  KGCNLLELMYKDPEKWAMTFQSYVSLTMLDMHRRPAPTPVKLMERSLFSARYCFVEHIMR
          *   **    **      **   *    *           **    *    *    *

Ae-dNK  SGSLHQGMYNILQEWYEFIHANIHIQADLIVYLRTSPEIVYERMKKRARSEESCVPLKYL
Ag-dNK  SGSLHQGMYNVLQEWYDFICCNIHIQADLIVYLQTSPEVVYERMKQRARSEESCVPLEYL
Dm-dNK  NGSLEQGMYNTLEEWYKFIEESIHVQADLITYLRTSPEVAYERIRQRARSEESCVPLKYL
Bm-dNK  NNTLHPAQFAVLDEWFRFIQHNIPIDADLIVYLRTSPSIVYQRIKKRARSEEQCVPLSYI
                                                  * *  *

Ae-dNK  QELHELHENWLIHGTFPRV-APVLVLDADLDLHNISSEYKRSETSILK---PILIDNTNQ
Ag-dNK  KELHELHENWLIHGASPRP-APVLVINADLDLNTIGAEYERSETSILK---PILIENTNQ
Dm-dNK  QELHELHEDWLIHQRRPQS-CKVLVLDADINLENIGTEYQRSESSIFD---AIS-SNQQP
Bm-dNK  EELHRLHEDWLINRIHAECPAPVLVLDADLDLSQITDEYKRSEHQILRKAVNVVMSSPNK

        nuclear import signal
        -------
Ae-dNK  H----PILASPSKRSRTEF--
Ag-dNK  H----AILTSPAKRAKTDF--
Dm-dNK  S----PVLVSPSKRQRVAR--
Bm-dNK  HSPKKPISTTPIKITPHMRIL
```
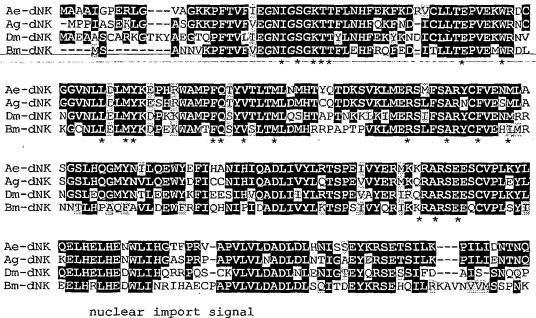
Fig. 1